

Fabien Houang

📍 Philadelphia, PA | 📞 (+1) 215 669 5388
 ✉️ houang.fabien@gmail.com | 🌐 linkedin.com/in/fabien-houang

EDUCATION

EPITA

MSC IN COMPUTER SCIENCE

Paris, France

SCIA - Major in Data Science and Artificial Intelligence

LINKS

LinkedIn:// [houang-fabien](#)

Github:// [fabienhouang](#)

Gitlab:// [fabien_houang](#)

Portfolio:// [fabienhouang.github.io](#)

CERTIFICATIONS

Google Cloud Certified x8 :

- Cloud Data Engineer
- Cloud Architect
- Machine Learning Engineer
- Cloud DevOps Engineer
- Cloud Database Engineer
- Cloud Security Engineer
- Cloud Developer
- Cloud Network Engineer

SKILLS

PROGRAMMING

Proficient:

Python • C/C++ • SQL

Linux shell • \LaTeX

Comfortable:

Go • Javascript • Scala • Ruby

NoSQL | MongoDB • Rails • Django

Familiar:

Caml • Matlab • Lua

LIBRARIES & TOOLS

Proficient:

GCP • Terraform • BigQuery

Keras • Numpy • OpenCV

Pytorch • Google Colab • VTK

Jupyter Notebook • Matplotlib

Sacred | Omniboard • GIT

Comfortable:

Pandas • Seaborn • Scikit-Learn

OpenMP • Optuna • Neptune

Familiar:

AWS • Spark • Hadoop

LANGUAGES

English

Fluent

French

Native

Chinese(Mandarin)

Proficient

EXPERIENCE

ROCHER GROUP | SENIOR DATA ENGINEER

Jan 2024 - Oct 2024 | Paris, France

Skills : Python, SQL, Google Cloud Platform, Airflow Composer, Bigquery, DataFlow

- Created data processing pipelines using **Cloud Composer** as orchestrator
- Created complex **SQL** scripts in **BigQuery** to process data and meet business needs
- Stored batch and streaming data from **Dataflow** in tables for reporting
- Created and maintained technical documentation on **Confluence**
- Organized knowledge transfer sessions for the Run Team at the end of each project

L'OREAL | DATA ENGINEER @ L'OREAL BEAUTY TECH DATA PLATFORM

May 2021 - Sep 2023 | Paris, France

Skills : Python, SQL, Google Cloud Platform, Terraform, Bigquery, Workflows, Flask

- Created data processing pipelines using **Terraform** for IaC and **Cloud Workflows/Scheduler** to orchestrate and automate processing steps
- Migrated data from different sources like SAP, Ivalua, Anaplan, Tibco to GCS/BQ
- Stored processed data and created views in **BigQuery** for reports and applications
- Exposed data through API implemented with **Flask**, running on **Cloud Run**
- Setup authentication through **Azure AD** and **Apigee** to access data from GCP

SIEMENS HEALTHINEERS | RESEARCH ENGINEER IN DEEP LEARNING

Mar 2019 - Mar 2020 | Princeton, New Jersey, United States

Skills : C/C++, Python, PyTorch, Optuna, OpenMP, OpenCV, Sacred | Omniboard, VTK

- Collaborated on **3D cardiac chambers modelization** project using 3D ultrasounds
- Trained **Multi-Agent Deep Reinforcement Learning** for landmarks detection
- Implemented and trained 3D volumes classification models on unbalanced dataset
- Optimized production code speed and optimized models hyper-parameters
- Achieved **3x faster and 10% more accurate modelization** than the base solution

III-FINANCEMENTS | FULL STACK DEVELOPER

Sep 2017 - Feb 2018 | Paris, France

- Developed a management web application and statistical analysis dashboards
- Designed Front-end, Back-end, and Database Modeling using **Ruby on Rails**
- Deployed the application and is currently used by more than 80% of the staffs

SIDE PROJECTS

VISION VENDOR | FLUTTER, DART, GCP

Jun 2024 - Present

- Building a mobile app to **enhance online reselling experience** by integrating **Gemini AI** to streamline the process on popular platforms (Ebay, FB Market)
- Submitted the app prototype at **Gemini API Developer Competition 2024**
- Built a cross-platform iOS and Android app using **Dart and Flutter Framework**
- Integrated Gemini AI API calls and prompt engineering on **Google AI Studio**

AUTONOMOUS RACING CAR | PYTHON, KERAS, OPENCV

Apr 2018 - Feb 2019 | Paris, France

- Built an **autonomous RC car** connected to a **Raspberry Pi 3** with camera module
- Collected, processed and simulated data for **Deep Learning** model training
- Designed, trained **time and memory efficient** models to run on embedded system
- Led a team of 4 students and competed against more than **20 teams nationwide**